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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,812	02/21/2006	Stanislaw Bodzak	R306456	7230
2119 RONALD E. G	7590 02/19/200 REIGG	EXAMINER		
GREIGG & GR		JACOBS, TODD D		
ALEXANDRIA	TAN STREET, UNIT ONE A, VA 22314		ART UNIT	PAPER NUMBER
			3746	
			MAIL DATE	DELIVERY MODE
			02/19/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/568,812	BODZAK, STANISLAW			
		Examiner	Art Unit			
		TODD D. JACOBS	3746			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the o	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMEVER IS LONGER, FROM THE MAILING Desions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 20 A	lovember 2008				
-	Responsive to communication(s) filed on <u>20 November 2008</u> . This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) 10-29 is/are pending in the application	in.				
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
-)⊠ Claim(s) <u>10-29</u> is/are rejected.					
	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/o	or election requirement.				
	ion Papers	1				
•	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a) acc					
	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate			
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DETAILED ACTION

Claim Rejections - 35 USC § 103

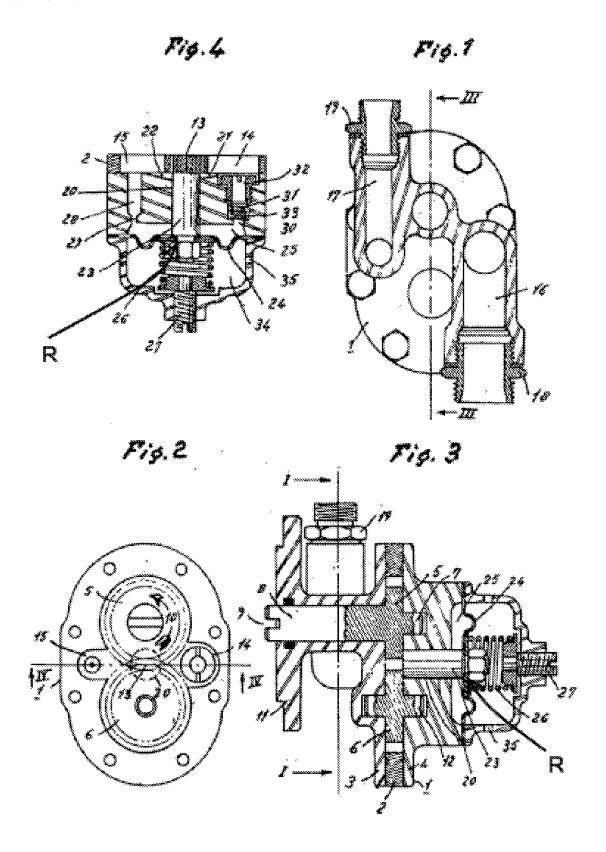
1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant admitted prior art (AAPA) in view of Zenith (GB 750,673).
- 3. In re claim 10, AAPA describes "in a fluid pump for use in a fuel injection apparatus of an internal combustion engine and having a housing that contains a pump chamber in which at least one rotary driven delivery element is contained, which delivery element delivers fluid to a pressure chamber from an intake chamber connected to a reservoir, and having a pressure limiting valve for limiting the pressure prevailing in the pressure chamber, which valve has a valve piston inside the housing, the valve piston being acted on in the closing direction by a prestressed closing spring and being acted on in the opening direction by the pressure prevailing in the pressure chamber and, when a predetermined pressure in the pressure chamber is exceeded, opens a connecting conduit from the pressure chamber to the intake chamber, and a filter preceding the fluid pump and/or a filter, following the fuel pump" (claim 1 lines 1-10 of the instant application).
- 4. However, AAPA fails to describe the improvement wherein the fluid pump comprises a pressure chamber having a connection to a region downstream of the preceding filter or a connection to a region downstream of the following filter, and wherein the pressure prevailing in the pressure chamber influences the force on the valve piston in the closing direction in such a

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way that as the pressure in the pressure chamber decreases, the force on the valve piston in the closing direction increases.

5. Nevertheless, Zenith, with reference to figure 3 below, describes a fluid pump with a pressure chamber (25) wherein the pressure prevailing in the pressure chamber (25) influences the force on the valve piston (23) in the closing direction in such a way that as the pressure in the pressure chamber (25) decreases, the force on the valve piston (23) in the closing direction increases. The advantage of this pressure chamber, as described by Zenith on page 1, line 34 is to "provide in a pump of this type an exact regulation of the pump delivery pressure".



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6. Therefore it would be obvious to one having ordinary skill in the art at the time of the invention to add a pressure chamber as described by Zenith wherein the pressure prevailing in the pressure chamber influences the force on the valve piston in the closing direction in such a way that as the pressure in the pressure chamber decreases, the force on the valve piston in the closing direction increases in order to regulate the pump delivery pressure.

- 7. Note that while Zenith does not disclose the pressure chamber having a connection to a region downstream of the preceding filter or a connection to a region downstream of the following filter, if combined with AAPA described above, Zenith's pressure chamber would inherently have a connection to a region downstream of the preceding filter or a connection to a region downstream of the following filter.
- 8. In re claim 11, with reference to figure 3 above, Zenith discloses the pressure chamber (25) delimited by a moving wall (24), one side of which is acted on by the pressure prevailing in the pressure chamber (25) and the other side of which is acted on by a prestressed spring (26) that pushes the wall (24) toward the valve piston (23) in its closing direction.
- 9. In re claim 12, Zenith discloses the moving wall (24) supported against the valve piston (23) by means of a rod (R).
- 10. In re claims 13-14, with reference to figure 3 above, Zenith discloses the moving wall (24) is embodied in the form of a diaphragm.
- 11. In re claims 15-18, with reference to figures 2 and 3, Zenith discloses the valve piston (23) at least partially delimiting the pump chamber (13) in the direction of the rotation axis of the at least one delivery element (5, 6), wherein the closing spring (26) presses the valve piston (23) against the end surface of the at least one delivery element (5, 6) oriented toward it, which end surface functions as a valve seat, and wherein the pressure prevailing in the pressure

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chamber (25) acts on at least part of the end surface of the valve piston (23) oriented toward the at least one delivery element (5, 6).

- 12. In re claims 19-21, with reference to figures 2 and 4, Zenith discloses a connecting conduit (21) between the delivery chamber (13) and the intake chamber (14) embodied in the form of a groove let into a housing part facing the end surface of the at least one delivery element (5, 6) and the valve piston controls the passage through this groove.
- 13. In re claim 22, with reference to figure 4, Zenith discloses that as pressure in the delivery chamber (13) increases, the valve piston (23) opens an ever greater through flow cross section in the connecting conduit (21).
- 14. In re claims 23-24, with reference to figure 4, Zenith discloses the diameter of the valve piston (23) greater than the width of the connecting conduit (21).
- 15. In re claims 25-29, Zenith discloses the valve piston (23) guided so that it is able to move in a bore (23, 25, 34) of a housing part, and wherein the intake chamber (14) is connected to a chamber (25) that is delimited in the bore (23, 24, 34) by the rear surface of the valve piston (23) oriented away from the end surface of the at least one delivery element (5, 6).

Response to Arguments

16. Applicant's arguments filed have been fully considered but they are not persuasive. Note first that in a U.S.C. 103(a) rejection, each limitation does not need to be found in each reference. Next, note that the only weight is given to what is written in the claims. Finally, note that, indeed, as pressure in the chamber decreases, spring 26 expands to close the chamber.

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Conclusion

17. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TODD D. JACOBS whose telephone number is 571-270-5708. The examiner can normally be reached on Monday - Friday, 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

/TODD D. JACOBS/ Examiner, Art Unit 3746